

**Würzburg University, Institute of Physics**  
has the following opening in the  
**Experimental Particle Physics Group**  
**Postdoc (TV-L E13) ATLAS High-Luminosity Upgrade**

The Würzburg experimental particle physics group participates in the ATLAS experiment at the Large Hadron Collider (LHC) at CERN. The group contributes in various on-going physics measurements using the ATLAS data. It also has been involved in hardware developments, construction works and tests in the field of the ATLAS Muon spectrometer.

As a part of the ATLAS High-Luminosity (Phase-2) upgrade project, new electronics hardware is being developed for the Monitored Drift Tubes (MDT) of the ATLAS Muon spectrometer. The Würzburg group has developed a hardware tester tool for the new read-out electronics cards (mezzanine cards) of the MDT detector. The tester tool is being successfully used to study the performance of prototypes of the MDT mezzanine cards. The tester tools will be used in quality mass tests of the mezzanine cards by several collaborator Institutions including the University of Würzburg itself

The applicant is expected to work on the on-going development of the software and database applications for the tester tool. In parallel, the successful candidate will be involved in performance studies of the mezzanine cards with the help of the tester tool. He/she will be co-leading the Würzburg team to organise and carry-out quality mass tests of the mezzanine cards at Würzburg. The work will be done in close collaboration with the MPI Munich, LMU Munich and with other non-German participant Institutions of the Phase-2 upgrade project of the MDT detector. Past experience in working with read-out electronics systems of particle detectors as well as in FPGA programming is appreciated.

Applications should be sent until August 15<sup>th</sup> 2022 to:

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or

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